

Magnusson 20m Laser Distance Measurer

Magnusson 20m Laser Distance Measurer User Manual

Model: 20m Laser Distance Measurer

1. INTRODUCTION

Thank you for choosing the Magnusson 20m Laser Distance Measurer. This device is designed for precise and efficient measurement of distances and areas. It is an ideal tool for professionals and DIY enthusiasts requiring accurate measurements up to 20 meters.

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your device. Please read it thoroughly before use and keep it for future reference.

2. SAFETY INFORMATION

2.1 Laser Safety

This product emits a Class 2 laser. Observe the following safety precautions:

- Do not stare directly into the laser beam.
- Do not point the laser beam at people or animals.
- Avoid direct eye exposure to the laser beam.
- Do not modify the laser device.

2.2 Battery Safety

The device uses AAA (LR03) alkaline batteries. Follow these guidelines:

- Insert batteries with correct polarity (+/-).
- Do not mix old and new batteries, or different types of batteries.
- Remove batteries if the device will not be used for an extended period.
- Dispose of used batteries responsibly according to local regulations.

2.3 General Safety

- Keep the device out of reach of children.
- Do not operate the device in explosive atmospheres.

- Protect the device from extreme temperatures, moisture, and strong vibrations.

3. PRODUCT OVERVIEW

The Magnusson 20m Laser Distance Measurer is a compact and robust tool designed for accurate distance and area measurements. It features an LCD screen for clear readings and an automatic shut-off function to conserve battery life.



Figure 1: Front view of the Magnusson 20m Laser Distance Measurer, showing the LCD display, measurement button, and function buttons.

Key Features:

- Measuring range up to 20 meters.
- Accuracy: < 2 mm/m.
- Minimum display unit: 1 mm.
- Automatic laser level.
- LCD screen for clear readings.
- Automatic shut-off after approximately 5 minutes of inactivity.
- IP54 International Protection Rating for dust and splash resistance.

4. SETUP

4.1 Battery Installation

The Magnusson 20m Laser Distance Measurer requires AAA (LR03) alkaline batteries (not included).

1. Locate the battery compartment cover on the back of the device.
2. Slide or unclip the cover to open the compartment.
3. Insert the AAA batteries, ensuring correct polarity (+ and - terminals match the markings inside the compartment).
4. Close the battery compartment cover securely.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Power On:** Press the 'DIST' button once. The laser will activate, and the LCD screen will light up.
- **To Power Off:** Press and hold the 'OFF' button (if available, otherwise the device will automatically shut off after 5 minutes of inactivity).

5.2 Basic Distance Measurement

1. Ensure the device is powered on.
2. Point the laser beam at the target surface from which you want to measure the distance.
3. Press the 'DIST' button again. The measurement will be displayed on the LCD screen.

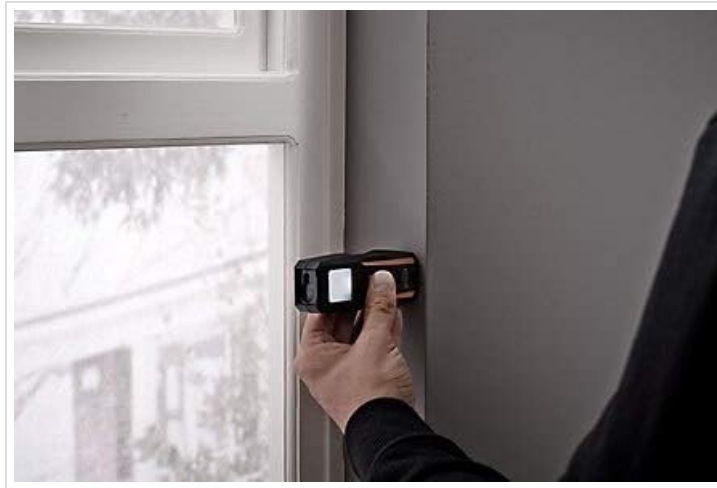


Figure 2: The device being used to measure a distance, held firmly against a surface.

5.3 Automatic Shut-off

To conserve battery life, the device will automatically shut off after approximately 5 minutes of inactivity. This includes both the laser and the display.



Figure 3: The laser measurer ready for use in a work environment, demonstrating its compact size and portability.

6. MAINTENANCE

6.1 Cleaning

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Clean the laser lens carefully with a soft, lint-free cloth to ensure accurate measurements.

6.2 Storage

- Store the device in a dry, cool place, away from direct sunlight.
- Remove batteries if storing for extended periods to prevent leakage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on	Batteries are dead or incorrectly inserted.	Replace batteries or check polarity.
Inaccurate measurements	Laser lens is dirty; target surface is too reflective or too dark; device is not stable.	Clean the laser lens; use a target plate for difficult surfaces; ensure device is stable during measurement.
Laser beam is weak or not visible	Low battery; bright ambient light.	Replace batteries; use in lower light conditions if possible.

8. SPECIFICATIONS

Feature	Specification
Measuring Range	0.05m - 20m
Accuracy	< 2 mm/m
Minimum Display Unit	1 mm
Laser Class	Class 2
Automatic Shut-off	Approx. 5 minutes
Battery Type	2 x AAA (LR03) Alkaline (not included)
International Protection Rating	IP54
Product Dimensions (H x W x D)	108 mm x 38.5 mm x 24 mm
Product Weight	Approx. 140 grams (with batteries)

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your retailer. Keep your proof of purchase for any warranty claims.